

Dkt 7164.01

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Henderson et al.

Serial No.: 09/574,519

Group Art Unit: 1655

Filed: May 18, 2000

Examiner: J. Fredman

Title: Method and Apparatus for Solid State Molecular Analysis

## AMENDMENT AND RESPONSE

Commissioner for Patents  
Washington, D.C. 20231I hereby certify that this document is being sent via facsimile  
(703) 305-3014 to Commissioner for Patents, Washington,  
D.C. 20231 on this 5 day of February, 2002.Thomas Esau  
(Signature)

Dear Sir:

The following amendments and remarks are submitted in response to the Office Action dated October 5, 2001. A Petition for a One (1) Month Extension of time is respectfully requested. The appropriate fee and the Petition are filed concurrently herewith.

## IN THE CLAIMS

Please amend the claims as follows

- Sub  
F1  
D1
56. (Twice Amended) A molecular array for characterizing molecular interaction events, comprising:
- (a) a substrate; and
  - (b) at least one molecular deposition domain on said substrate wherein the spatial address of the domain is less than one micron in area and each domain includes a biologically or chemically based molecule directly deposited on the substrate.

Please add the following new claims.

- Sub  
F2  
D2
76. (New) An array for the identification of a target material comprising:  
a silicon substrate including a substantially flat surface; and

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02 FC:202  
03 FC:20384.00 CH  
270.00 CH

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